	00000000 00000000	00000000000000000000000000000000000000	11111111	NNN	NNN
			!!!!!!!!!!	NNN	NNN
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LLL	000 00	) GGG	III	NNN	NNN
LLL	000 00		ĪĪĪ	NNN	NNN
iii	000 00		iii	NNN	NNN
111			111		
LLL	000 00	) GGG	ΪΪΪ	NNNNN	NNN
LLL	000 00		111	NNNNN	NNN
LLL	000 00	) GGG	111	NNNNNN	NNN
ίίί	000 00		ĬĬĪ	NNN NNN	NNN
ili			<b>†††</b>		
			111	NNN NNN	NNN
LLL	000 00		111	NNN NNN	NNN
LLL	000 00	O GGG GGGGGGG	III	NNN I	NNNNN
LLL	000 00	O GGG GGGGGGG	İIİ	NNN I	NNNNN
III	000 00		iii		NNNNN
111		000 00000000	<b>† † †</b>		
LLL	000 00		111	NNN	NNN
LLL	000 00		111	NNN	NNN
LLL	000 00	) GGG GGG	111	NNN	NNN
	00000000	GGGGGGGG	111111111	NNN	NNN
1111111111111	00000000	GGGGGGG	* * * * * * * * * * * * * * * * * * * *		
			11111111	NNN	NNN
LLLLLLLLLLLLLL'	00000000	GGGGGGGG	111111111	NNN	NNN

				DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	QQQQQQ QQ QQ QQ QQ			

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Commonly used definitions for VMS modules written in BLISS

Version:

'V04-000'

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ABSTRACT:

1 \*

This is the common require file for any module written in BLISS

**ENVIRONMENT:** 

VAX/VMS operating system.

AUTHOR: Tim Halvorsen, Feb 1980

MODIFIED BY:

1----

V03-001 MHB0127 Mark Bramhall Added the MOVE\_QUAD macro.

5-Apr-1984

```
VÕ
```

```
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UTILDEF.REQ:1
         Equated symbols
LITERAL
                 = 1,
    true
                                              boolean true
                 = 0,
    false
                                              boolean false
                 = 1,
    ok
                                              success return code
                 = 2.
    error
                                              error return code
                                             ! quadword allocation definition
    beup
         Define structure type for VMS structures
STRUCTURE
    bblock [o, p, s, e; n] = [n]
                  (bblock+o)<p,s,e>:
MACRO
    move_quad (src, dst) = ! Move a quadword BEGIN
         (dst)+0 = .(src)<0, 32>;
(dst)+4 = .(src)<32,32>;
         ENDX:
MACRO
    descriptor [] =
                                   ! Generate a static string descriptor
        UPLIT (XCHARCOUNT (XSTRING (XREMAINING)),
UPLIT BYTE (XSTRING (XREMAINING))) %;
MACRO
    own_desciptor [] =
                                   ! Generate the actual static string descriptor
        BBLOCK [8] INITIAL (%CHARCOUNT (%STRING (%REMAINING)),
                          UPLIT BYTE (XSTRING(XREMAINING))) X;
MACRO
    return_if_error(command) = BEGIN
         LOCAL
             status;
         status = command;
         IF NOT .status
         THEN
            RETURN .status;
         ENDX:
MACRO
    signal_if_error(command) =
    BEGIN
         LOCAL
             status:
         status = command:
```

```
16-SEP-1984 16:51:55.96 Page 3
UTILDEF.REQ:1
         IF NOT .status
         THEN
              BEGIN
              SIGNAL(.status);
              RETURN .status;
              END;
         ENDX:
  Macro to implement a function (f) of the message severity level that
  maps the various severity levels such that arithmetic comparisions of the mapped values ( f(severity) ) yield a order of precedence that is
  intuivitvely acceptable:
                  ERROR NAME
                                                NEWVAL
                                    OLDVAL
                  F(SUCCESS)
                  F(INFORMATIONAL)
                                            -->
                  F (WARNING)
                                            -->
                  F(ERROR)
                                            -->
                  F(SEVERE ERROR)
MACRO
    severity level (status) = BEGIN
         LOCAL code: BBLOCK [LONG];
         code = status;
         .code [sts$v_severity] - (4 * .code [sts$v_success]) + 3
         ENDX:
MACRO
    cliSexternal(prefix) =
         XIF XDECLARED (XQUOTE XQUOTE clisprefix)
                  XTHEN UNDECLARE XQUOTE XQUOTE clisprefix; XFI
         MACRO clisprefix = prefix XQUOTE X:
         EXTERNAL LITERAL
              cliSexternal_loop(%REMAINING)%,
    cliSexternal_loop[name] =
         XNAME(clisprefix,name): UNSIGNED(8)%;
MACRO
    $exiernal_literal(symbol) =
         BEGIN
         XIF NOT XDECLARED (symbol) XTHEN EXTERNAL LITERAL symbol XIF XLENGTH GTR 1 XTHEN: XREMAINING XFI; XFI
         symbol
         ENDX:
MACRO
```

! Access FAB\$L\_DEV bits of FAB block

\$fab\_dev(dev\_bit) =
\$BYTEOFFSET(fab\$l\_dev),

\$BITPOSITION(%NAME('dev\$v\_',dev\_bit)),1,0%;

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